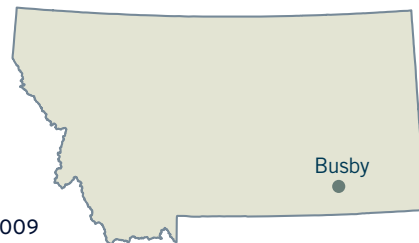


# CUSTER'S LAST CAMP

## NORTHERN CHEYENNE INDIAN RESERVATION

### BUSBY, MONTANA

March 2009



## ACCOMPLISHMENTS

- Removed 3 USTs and ancillary equipment
- Excavated and removed 3,481 yd<sup>3</sup> of PCS
- Installed new drinking water well
- Conducted site assessments
- Installed 5 MWs
- Groundwater monitoring
- Conducted AS/SVE pilot study
- Evaluated feasibility of AS/SVE system as remedial strategy
- Designed full-scale AS/SVE system



EPA Region 8 performed this work in partnership with the Northern Cheyenne Tribe and with contract support from Avanti Corporation.

## PLANNED ACTIVITIES/ FUTURE STRATEGIES

- Install and operate AS/SVE system
- Groundwater monitoring

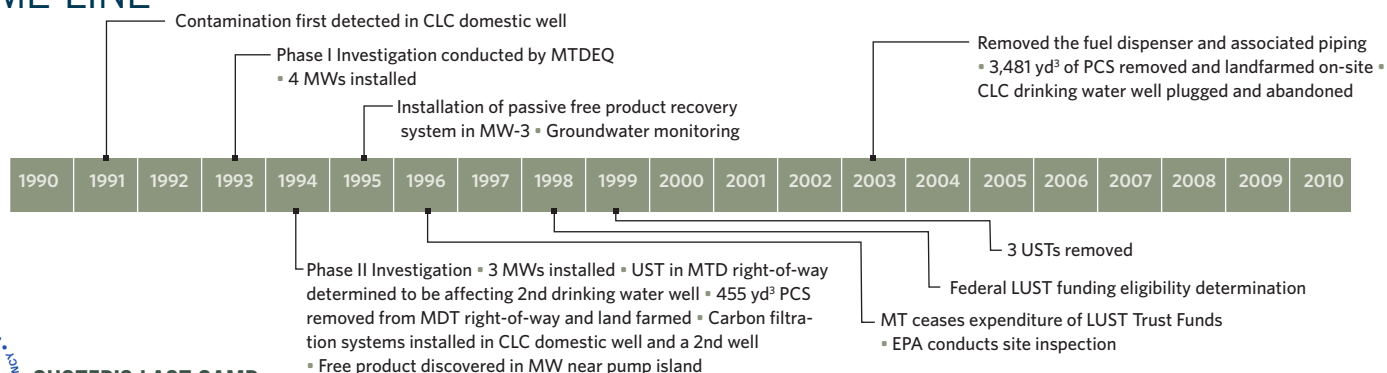
## SITE HISTORY

A gas station and associated store once operated at the Custer's Last Camp (CLC) site. In 1991, the domestic well located at CLC was found to be contaminated with volatile organic compounds (VOC), including

benzene and 1, 2 DCA. In 1993 and 1994 the Montana Department of Environmental Quality (MTDEQ) conducted site investigations with leaking underground storage tank (LUST) Trust funds. Carbon filtration systems were installed in two domestic wells. Site activities determined the source of the contamination of one of the domestic wells to be from the underground storage tank (UST) located in the Montana Department of Transportation (MDT) right-of-way. Four hundred fifty-five yd<sup>3</sup> of petroleum contaminated soil (PCS) were removed from the right-of-way. However, additional sampling results indicated contamination from other sources. MTDEQ notified the owners of the CLC site that the state would no longer be funding clean-up activities at the site. EPA inspectors visited the site in 1996 and CLC became eligible for federal LUST funding in 1998. The fuel dispenser, associated piping, 3 USTs and 3,481 yd<sup>3</sup> of PCS were removed from the site in 2003. Soil samples taken during the excavation activities indicated elevated concentrations of petroleum hydrocarbons in the soil. A new domestic drinking water well was installed in 2003. Two additional monitoring wells (MWs) were installed in 2004. Groundwater samples continued to show high contaminant concentrations in the vicinity of the former USTs while soil samples showed low levels of contaminants in the vicinity of the former USTs. In 2008, a site assessment was conducted at the site. Three additional MWs were installed, developed and sampled. Results from the site assessment indicated that petroleum hydrocarbons present in the soil were limited to the vicinity of the former pump islands. An AS/SVE pilot study was designed and performed. Design work on a full-scale AS/SVE system was completed in January 2009. EPA is planning to install the remedial system in April 2009.



## TIME LINE



### CUSTER'S LAST CAMP

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